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[1. CBD15C-001: Infectious Disease Diagnostics and Differentiation of Viral vs. Bacterial Infections for Point of Care Applications](#)

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

TECHNOLOGY AREA(S): Chemical/Biological Defense; Biomedical OBJECTIVE: To provide an easy to use human clinical diagnostic testing technology which is effective for the detection, identification and differentiation of a wide range of viral and bacterial diseases caused by endemic diseases and biological warfare agents. Capabilities sought should be rapid and highly sensitive and selective sol ...

STTR Office for Chemical and Biological Defense Department of Defense

[2. CBD152-001: Adjustable Focus Lenses for Respiratory Protection](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Current respiratory protection systems require optical inserts for wearers requiring optical correction. Use of optical correction inserts limit optical compatibility with night vision goggles and weapon systems due to the added eye relief. One reason individual high index lenses are not used is because they cost seven times more than vision correction inserts. Additionally, polycarbonate lenses h ...

SBIR Office for Chemical and Biological Defense Department of Defense

[3. CBD152-002: Smart Split Neck Seals for Respiratory Protection](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Current respiratory protection neck seal systems do not incorporate smart sensing technologies. Current neck seal systems are simply basic circular rubber cut-outs and are required to be constructed of one continuous piece of material. Many wearers find traditional neck seals to be uncomfortable. Respiratory protection systems utilized for fixed wing aircraft pilots (e.g. JSAM-FW, AR-5, and AERP), ...

SBIR Office for Chemical and Biological Defense Department of Defense

[4. CBD152-003: Development of Mycotoxin Medical Countermeasures](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Mycotoxins are toxins produced by several species of fungi. Exposure to these toxins can result in incapacitation or even death of the exposed subject. From a biological warfare perspective, mycotoxins are relatively easy to produce in large quantities and many of them have nearly effortless accessibility. For these reasons, mycotoxins present a real threat to the warfighter. Trichothecene (T-2), ...

SBIR Office for Chemical and Biological Defense Department of Defense

[5. CBD152-004: Exploiting Microbiome and Synthetic Biology to Discover and Produce Naturally Occurring Antibiotics](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

The explosion in the “omics” field has allowed for unprecedented genetic identification of some of the billions of bacteria that comprise the world of the microbiome. A potential wealth of information is available through the study of species that have developed sophisticated defense mechanisms to protect themselves from the onslaught of foreign invaders. Recent examples include the microbiome ...

SBIR Office for Chemical and Biological Defense Department of Defense

[6. CBD152-005: High Sensitivity, Low Complexity, Multiplexed Diagnostic Devices](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

The U.S. Department of Defense requires infectious disease in vitro diagnostic (IVD) capabilities that are operationally suitable for use in far forward military environments and operationally effective versus a wide range of threats. Current single use disposable Lateral Flow Immunoassay-based diagnostic tests have many desirable operational suitability characteristics (low cost, minimal training ...

SBIR Office for Chemical and Biological Defense Department of Defense

7. CBD152-006: Signal Processing for Layered Sensing

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Asymmetric threats including chemical and biological agents, improvised dissemination devices, and vehicle- and personnel-born improvised explosive devices represent a persistent hindrance to U.S. military operations. Various sensor and surveillance systems develop a capacity to warn of the presence of such threats on a point-by-point basis; however the consumption of these data in the constructio ...

SBIR Office for Chemical and Biological Defense Department of Defense

8. H-SB015.1-001: DNA and Latent Fingerprint Collection from Same Sample

Release Date: 12-03-2014 Open Date: 12-17-2014 Due Date: 01-21-2015 Close Date: 01-21-2015

OBJECTIVE: Develop a method for latent print work and DNA analysis from the same sample while optimizing DNA extraction protocol for fingerprints deposited on evidentiary materials used for human identification. DESCRIPTION: Forensic evidence collection is an essential tool for acquiring information for law enforcement investigations and latent fingerprints are the main piece of evidence to inve ...

SBIR Department of Homeland Security

9. H-SB015.1-002: Low-cost, Disposable, Tamper-Proof Bolt Seal

Release Date: 12-03-2014 Open Date: 12-17-2014 Due Date: 01-21-2015 Close Date: 01-21-2015

OBJECTIVE: Develop, prototype, and demonstrate a low-cost electronic reusable and/or disposable, tamper-proof cargo container/conveyance bolt seal for the maritime and air cargo environments. DESCRIPTION: The current generation of bolt seals, despite being ISO-17712-2013 compliant, provides only limited protection from tampering and illicit entry into the container or conveyance. They can be def ...

SBIR Department of Homeland Security

10. H-SB015.1-003: Enhanced Distributed Denial of Service Defense

Release Date: 12-03-2014 Open Date: 12-17-2014 Due Date: 01-21-2015 Close Date: 01-21-2015

OBJECTIVE: Develop tools, techniques, and policies that mitigate the impact of distributed denial of service (DDoS) attacks. DESCRIPTION: Distributed Denial of Service (DDoS) attacks are used to render key resources unavailable. For example, a classic DDoS attack might disturb a financial institution's website, and temporarily block a consumer's ability to conduct online banking. A mo ...

SBIR Department of Homeland Security

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